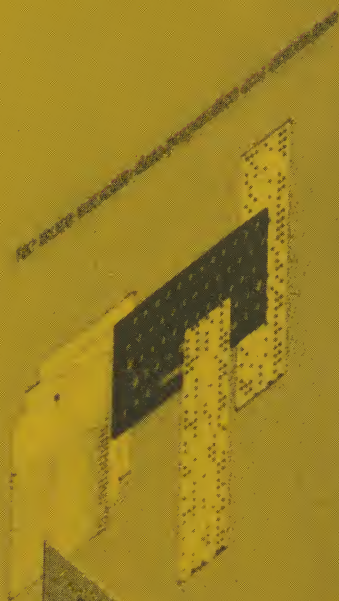SJ 71

how to get
information on Teletype
equipment, applications
and case histories

What's new at Teletype? How is Teletype® equipment being used in data communications today? What capabilities have been built into its terminals?

You'll find answers to these questions and many more in the descriptive literature listed below. Use the attached card to request any of the brochures you would like to have.

**(1) THE abc's OF TELETYPE EQUIPMENT brochure** — *A primer on electronic transmission and permutation codes. Tells how data is sent and received by Teletype equipment, written in simple language and layman's terms. (16 pages)*

## about Teletype® equipment

**(2) IT'S THE INKTRONIC® TERMINAL brochure**—*Describes the latest in electronic, solid-state, high-speed terminal equipment. The Inktronic terminal is capable of sending and receiving up to 120 characters per second. Prints electrostatically. Ink supply and guidance system has only one moving part. (16 pages)*

**(3) MEET THE MODEL 37 brochure** — *Gives details on a new line of heavy-duty automatic send-receive sets and page printers that operate at 15 characters per second. Model 37 types in upper and lower case; has an on-line tab-set capability; uses ASCII code; and has many unique features that enable it to handle the most complex forms of data with utmost efficiency. Available in standard and wide-platen models. (16 pages)*

**(4) TELETYPE MODEL 35 EQUIPMENT brochure**—*The line of Model 35 heavy-duty page printers and automatic send-receive sets operates at 10 characters per second (100 words per minute) and uses ASCII. (14 pages)*

**(5) TELETYPE MODEL 33 EQUIPMENT brochure** — *These economical page printers and automatic send-receive sets have a 4-row keyboard and operate at 10 characters per second using ASCII. (12 pages)*

**(6) FIVE LEVEL CODE EQUIPMENT brochure**—*Model 28 and model 32 terminals operate on a five-level code. (8 pages)*

**(7) TELETYPE HIGH-SPEED PAPER TAPE READERS information sheet** — *New DX series of readers can read punched paper tape at rate of up to 360 characters per second (3600 WPM). Code insensitive. Asynchronous. Self-contained. (2 pages)*

**(8) MAGNETIC TAPE DATA TERMINALS brochure**—*These terminals send and receive data on-line at speeds up to 240 characters per second using handy cartridges of $1/2$' magnetic tape. Can be used as a stand-alone terminal, or in conjunction with Teletype model 33, 35, 37, or Inktronic terminals. (16 pages)*

**(9) TELETYPE MODEL 33 NUMERIC KEYBOARD ASR SET brochure**—*This set has a numeric keyboard. It can be efficiently used in chain stores or wherever there is a need for fast and economical numeric data communications. (12 pages)*

**(10) TELESPEED™ 1200 EDC brochure** — *This high-speed tape-to-tape equipment has automatic error detection and correction capabilities and operates at up to 120 characters per second. (14 pages)*

**(11) TELESPEED™ 1050 brochure** — *These high-speed tape-to-tape sets transmit and receive data at 105 characters per second. The punched paper tape can be stored, fed into a computer, or processed in any way that is needed. (12 pages)*

**(12) TELESPEED™ 750 brochure**—*This economical tape-to-tape equipment operates at 75 characters per second. Besides discussing floor model sending and receiving sets, the brochure also describes the table-mounted sending set. (8 pages)*

**(13) TELETYPE DRPE HIGH-SPEED PAPER TAPE PUNCH brochure**—*This high-speed punch can receive and punch characters in paper tape at any speed up to 240 characters per second without any changes or readjustments. It punches 10 characters to the inch and is code insensitive. (8 pages)*

**(14) TELETYPE BRPE HIGH-SPEED PAPER TAPE PUNCH information sheet**—*This high-speed punch operates at 105 characters per second, produces punched tape at 10 characters to the inch and is code insensitive. (2 pages)*

**(15) TELETYPE MODEL 35 ROTR brochure**—*This 8-level self-contained typing paper tape punch receives data at 10 characters per second and produces punched tape at 10 characters to the inch. (6 pages)*

**(16) TELETYPE LPR TYPING PAPER TAPE PUNCH information sheet**—*This is a 5-level receive-only punch designed to punch and print information in tape simultaneously. Operates at 10 characters per second. Spacing is 10 characters to the inch. (2 pages)*

**(17) TELETYPE LOW-SPEED PAPER TAPE READERS brochure** — *These electromechanical paper tape readers are code insensitive. Normal operating speed is 10 characters per second. They can read tape punched at 10 characters to the inch. They can read 11/16, $7/8$, or 1 inch paper tape. (10 pages)*

**(18) STUNTRONIC™ ACCESSORIES SA-110, SA-120 information sheet** — *Covers new, low-cost, solid-state accessories that "tune in" signals and detect vertical parity errors in the data system. For use with Model 33, 35, 37, Telespeed™ and Inktronic terminals. (2 pages)*

**(19) STUNTRONIC™ ACCESSORIES SA-130, SA-140 information sheet**—*Describes Teletype's new solid-state logic modules that provide station interface, control and response with Model 33, 35, 37, Telespeed, and Inktronic terminals. Help establish efficient economical and automatic control over the entire data system. (2 pages)*

## about applications

**(20) TIME-SHARING brochure** — *An informative discussion on how Teletype equipment is being used as input-output devices in computer time-sharing applications. (8 pages)*

**(21) TELETYPE TERMINALS BRING THE COMPUTER TO STUDENTS OF ALL AGES information sheet**—*Tells how Teletype equipment is being used in conjunction with computer assisted instruction programs. Covers applications in primary grades, high schools and universities. Describes a number of terminals being used. (2 pages)*

**(22) TELETYPE EQUIPMENT FOR MULTI-POINT, PRIVATE LINE DATA COMMUNICATIONS brochure**—*Describes benefits of multi-point, private line operation; how to design a system; outlines 2 varieties of equipment and accessories available for this type of service. Also includes brief case histories. (16 pages)*

## case histories (All 8-pages)

**(23) ARMCO STEEL CORPORATION**—*This company's nationwide teleprinter network coupled with a third generation computer enables Armco to process over 10,000 messages, orders, and shipping details every day. Average turn-around time per customer inquiry is 45 minutes.*

**(24) MARATHON OIL COMPANY**—*This brochure describes how Marathon Oil mails invoices the day after sales are made—keeps tight control over the inventory at the distribution terminals using a Teletype terminal network.*

**(25) LOS ANGELES COUNTY**—*The Los Angeles County Department of Public Social Service maintains 18 major district offices and 13 sub-offices to provide local community contact points for people receiving or seeking public aid. A network of Teletype 35 Automatic Send-Receive sets used with computer processing helps speed data flow.*

**(26) KENNAMETAL, INC.**—*How can a company join its many sales offices, plants, and warehouses into one cohesive, smooth-working system of order processing and production control? This progressive hard-metals manufacturer developed "Kenstar", a modern data communications system using various Teletype terminals, polling equipment and high speed, tape-to-tape equipment.*

**(27) KAISER CEMENT & GYPSUM CORPORATION**—*This firm helped solve an unfavorable cash flow problem with a multi-faceted communications system that speeded up payroll, order and billing procedures. The system based on high-speed Teletype data terminals connects Kaiser's corporate headquarters in Oakland, California*

with its many plants and distribution centers around the country (including Hawaii).

**(28) B. F. GOODRICH INDUSTRIAL PRODUCTS COMPANY**—*A data communications network of Teletype terminals assure that more than 11,000 items are quickly available to thousands of B. F. Goodrich customers. The system incorporates teleprinters in combination with high speed tape-to-tape equipment between 11 warehouses and the firm's Akron headquarters.*

**(29) INLAND UNDERGROUND FACILITIES, DIVISION OF BEATRICE FOODS COMPANY**—*How this firm uses a network of Teletype equipment to maintain error-free inventory, order and shipment control of more than 4,000 tons of food in transit each day. Teletype terminals link shipments to a 100-acre underground warehouse and storage complex.*

**(30) S&W FINE FOODS, INC.**—*This leading food processor and distributor employs a variety of Teletype data terminals tied to a central computer to link its widespread operations. The national data communications system has speeded order delivery, reduced inventory time, and lowered warehouse inventory levels.*

**(31) A TOTAL INFORMATION SYSTEM FOR EDUCATIONAL SYSTEMS**—*An important study on how data processing can improve the quality of education. Project OTIS (Oregon Total Information System) utilized Teletype data communication terminals and time-sharing computers to chart student progress, profile school district finances, and discover critical relations between various education programs.*

**(32) MISSISSIPPI CAI (COMPUTER ASSISTED INSTRUCTION) SCHOOL PROGRAM**—*A report on how CAI is helping disadvantaged students in McComb, Mississippi learn math. Teletype data communications terminals link students with a California-based computer that provides individualized drill instruction at each student's best rate of learning.*

**(33) THREE MEDICAL CASE HISTORIES: (1) U.S. PUBLIC HEALTH SERVICE (2) BLUE CROSS/BLUE SHIELD (3) EPPLEY CANCER RESEARCH INSTITUTE**—*Three case histories relate how high speed Teletype equipment is playing a vital role in all phases of modern medicine, whether diagnostic or administrative. Material ranges from the use of Teletype data terminals in interpreting electrocardiograms to handling thousands of admittance approvals for 20 state-wide hospitals to their importance in a sophisticated system of cancer detection.*

---

FIRST CLASS
Permit No. 480
Skokie, Illinois

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No Postage Stamp Necessary if Mailed in the United States

**TELETYPE CORPORATION**
Department 1143
5555 Touhy Avenue
Skokie, Illinois 60076

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FIRST CLASS
Permit No. 480
Skokie, Illinois

Postage Will Be Paid By Addressee

**BUSINESS REPLY MAIL**
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**TELETYPE CORPORATION**
Department 1143
5555 Touhy Avenue
Skokie, Illinois 60076

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FIRST CLASS
Permit No. 480
Skokie, Illinois

# Fill Out Card
## for More Answers

☐ Send sales literature as follows: (circle code number of brochure desired)

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 6 | 11 | 16 | 21 | 26 | 31 |
| 2 | 7 | 12 | 17 | 22 | 27 | 32 |
| 3 | 8 | 13 | 18 | 23 | 28 | 33 |
| 4 | 9 | 14 | 19 | 24 | 29 | |
| 5 | 10 | 15 | 20 | 25 | 30 | |

☐ Have Teletype Applications Consultant phone

☐ Send price and delivery information on

_____

(PRODUCT)

☐ Put me on your mailing list

☐ Other_____

Name_____

Title or Function_____

Company_____

Street Address_____

City, State, Zip Code_____

Telephone_____
                (area code)        (number)

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# Fill Out Card
## for More Answers

☐ Send sales literature as follows: (circle code number of brochure desired)

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| 2 | 7 | 12 | 17 | 22 | 27 | 32 |
| 3 | 8 | 13 | 18 | 23 | 28 | 33 |
| 4 | 9 | 14 | 19 | 24 | 29 | |
| 5 | 10 | 15 | 20 | 25 | 30 | |

☐ Have Teletype Applications Consultant phone

☐ Send price and delivery information on

_____

(PRODUCT)

☐ Put me on your mailing list

☐ Other_____

Name_____

Title or Function_____

Company_____

Street Address_____

City, State, Zip Code_____

Telephone_____
                (area code)        (number)

TELETYPE

# FROM TELETYPE...

# a new on-line computer-size print-out capability

### It's the Teletype® 37 wide platen data terminal

Here's an easy way to move processed data on-line from the computer to any number of remote locations using the same familiar format found in the computer room. The Teletype 37 data terminal line with wide platen design delivers this capability and more.

Now the ins and outs of tabular data and text can be sent and received on-line on standard 14⁷⁄₈" wide computer paper stock. Saving time, confusion and dollars.

### Unique format flexibility

The 37 data terminal with wide platen prints the standard 132 character line at 10 characters per inch. A 12 character per inch option allows printing up to 163 characters per line. The 37 generates the full 128 ASCII code combinations. Offers unique printing format flexibility that makes remote computer dialog exceptionally easy and efficient. Gives you such things as on-line tab set control; forward and reverse half-line and full line feed; two color printing; etc. Features that bring data to the page in a form that is easier to read, comprehend and utilize.
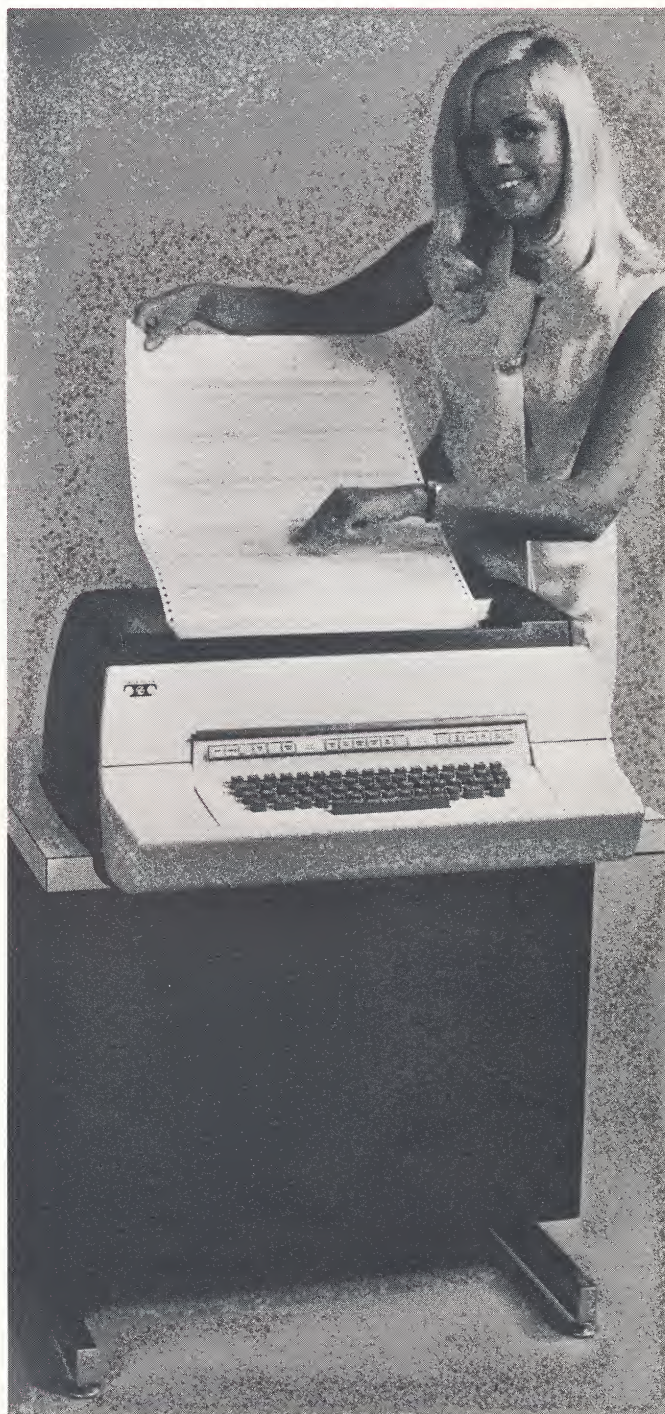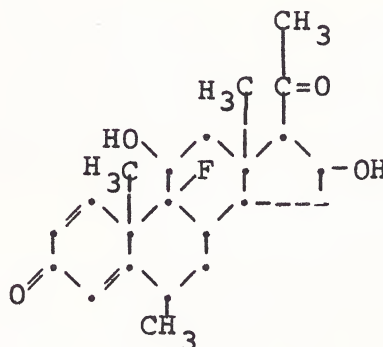
### Faster data flow

The wide computer-size format has a number of useful on-line applications. Financial, accounting and payroll reports; inventory and stock status data; order details; performance evaluation reports; engineering problems are just a few areas that can be handled quickly and economically on-line using the wide platen data terminal. It literally brings computer resources out of the computer room and keeps vital data flowing faster on-line to all those who need it. The model 37 has a rated speed of 15 characters per second. Printing and carriage return characteristics provide far greater effective speed than any terminal in its class. Which means greater economy of operation for every minute of on-line time.

### A versatile line

Teletype 37 equipment with wide platen design includes receive-only sets; keyboard send-receive sets; and automatic send-receive sets. It is available with paper tape and/or magnetic tape send/receive modules.

On the inside fold-out you'll find an example of what the Teletype 37 terminal with wide platen can mean to your data communication capabilities.

You can print a full 132 character line at 10 characters per inch

1234567890123456789012345678901234567890123456789012345678901234567890123456

Print 94 standard characters...

ABCDEFGHIJKLMNOPQRSTUVWXYZ   abcdefghijklmnopqrstuvwxyz   123456789(

Add up to 32 special characters of your own...

ᵒ̄Ⅱ⅄7⅄LOU⊥⊦Ⅰ ⅃⊔ ⊓⊦⊣⊏⊑⊐⊓⊤ ⊎⅄⅂⊣ ⊦   α β ω δ Λ ΦΓΨτ πρ λμ ηΘΠ⅃ ∑ε θφ ψΔ ξσΩ   α βΔ δ θ φξ _2

Print in two colors...

call up a computer using <span style="color:red">red</span> for questions.... have the computer a

S et tab stops on-line...both horizontally and vertically...making

| 1234 | 5678 | 8901 | 0987 | 6543 |
|------|------|------|------|------|
| 7890 | 1234 | 5678 | 9012 | 3456 |
| 7980 | 5678 | 9012 | 3456 | 4321 |
| 7654 | 9876 | 4321 | 6543 | 7823 |

Program tabular format changes on-line without hampering operation

| 1234 | 5678 | 8901 | 7654 | 4567 |
|------|------|------|------|------|
| 5432 | 2345 | 1234 | 5678 | 2399 |

Use fractional line feed forward and reverse...full line feed forw

$$(a + b)^2 = a^2 + 2ab + b^2 \qquad e^x = 1 + x$$

You can even print complicated molecular structures......plot comp

—

78901 2345678901 2345678901 2345678901 2345678901 2345678901 2345678901 23456789012

[{!"#$%&'()=_-~|`+*?}]] <^\@;:/,.>

‾₃λ⌄ ±NH I \ς ⩴ CΙΙ O⧸ >

nswer in black

tabular data extra easy to handle...

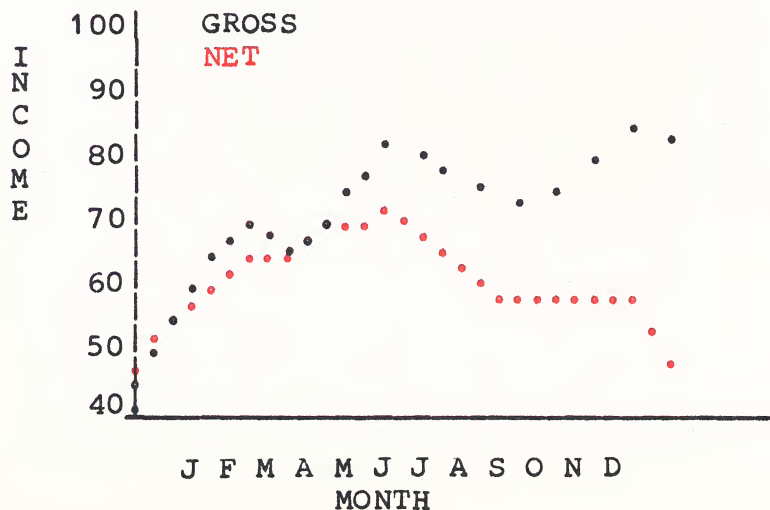|        |            |
|--------|-----------:|
| Brown  | $   400.00 |
| Black  |   1,976.00 |
| Red    |     111.99 |
| Blue   |   8,987.65 |

al efficiency or speed...

Red white and blue      @$200. 15/ dozen
Black, brown and rose   @ 176.90/ dozen

ard and reverse to handle mathematical expressions on-line

$$+ \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!}\ldots\ldots \qquad \cos^2\theta - \sin^2\theta = \cos2\theta$$

lex charts or graphs...

# TELETYPE

## Technical Information

**Speed:** —150 words per minute (15 characters per second) or 150 baud.

**Line Length:** —132 characters at 10 characters per inch standard. Can be adjusted to 136 characters per line maximum. Up to 163 characters with 12 characters per inch option.

**Vertical Spacing (Line):** —6 lines per inch; operator can select double line space. Option allows full reverse, as well as ½ forward and reverse line space.

**Characters Available:** —Standard 6-row type box provides the capability of printing 94 graphics of the ASCII code.

**Shift Out:** —The page printer can be equipped with an option to respond to 16 or 32 additional special graphics. Option includes the substitution of a 7 or 8-row type box.

**Feed:** —Pin feed platen is 15 inches wide.

**Form Entry:** —Rear loading. Continuous forms may be easily accommodated on the printer with the optional supply box and accumulator shelf.

**Form Out:** —Upon receipt of the ASCII form feed character, the paper will be advanced to the beginning of the next form. It will not respond to subsequent form feed characters until after paper has been advanced.

**Vertical Tab:** —Vertical format can be set by signals generated by the keyboard or remote terminals.

**Horizontal Tab:** —Tab stops for any character position can be set by the operator with keyboard signals, or by remote terminals.

**Finish:** —Two-tone combination of charcoal gray and ivory.

**Code:** —ASCII (7 information bits plus parity), 10 unit.

**Paper Tape:** —8-level, 1 inch wide.

**Magnetic Tape:** —Use Teletype 4210 magnetic tape data terminals.

**Keyboard:** —4-row, similar to typewriter.

**Temperature:** —Operating: 40°-110°F ambient, humidity: 95% max.

**Power Requirements:** —115 AC ± 10%, 60 Hz ± .45 Hz
RO......approx. 200 Watts
KSR.....approx. 300 Watts
ASR.....approx. 550 Watts
15 amp fused circuits.

**Interface Information:** —Interface in accordance with EIA standard RS-232-C. With proper data set, can transmit over regular voice grade lines or narrow band channels.

**Maintenance Intervals:** —Every 6 months or every 1500 operating hours, whichever occurs first.

**Dimensions and Weight:**

| unit | height | width | depth | approx. weight |
|------|--------|-------|-------|----------------|
| RO | 36¼ in. | 29 in. | 24¼ in. | 207 lbs. |
| KSR | 36¼ in. | 29 in. | 27½ in. | 214 lbs. |
| ASR | 36¼ in. | 41 in. | 27½ in. | 342 lbs. |

**Reliability:** —mean time between failure > 15,000 hrs.
—mean time to repair < 1 hour.

The MTBF and MTTR figures given above, are based on a combination of failure rates that have been observed in the past on similar equipment in the field, years of laboratory testing and experienced engineering judgment.

## For more information

Teletype Corporation continually encourages the correspondence of companies and individuals interested in the science of data communications. For more information about:

LEASED SERVICES featuring Teletype 37 wide platen data terminals, consult your local telephone or telegraph company.

PURCHASING (or general information) about this or any Teletype equipment, contact our Sales Organization at one of the locations listed below.

When ordering input-output terminals for your DATA PROCESSING SYSTEM, be sure to specify Teletype equipment—your vital communications link.

*machines that make data move*

# FROM TELETYPE...

# a new line of magnetic tape data terminals

SJ 71

## adds high speed on-line capability to low speed data terminals

Now you can solve the problem of handling a growing data volume with low speed terminals. How? With Teletype's new 4210 Magnetic Tape Data Terminal. This terminal functions just like a paper tape punch and reader. Only there's an important difference. The 4210 uses magnetic tape cartridges instead of paper tape rolls. And it's fast. So fast that it can handle data distribution and collection at speeds up to 2400 words per minute. Great for any application where data build-up demands high speed handling. Great, too, for computer input/output where line time should be minimized.

## Turn-around capability saves line time and costs

Talk about line time efficiency. The Teletype® 4210 Magnetic Tape Data Terminal automatically switches to the receive mode on completion of sending. That feature benefits almost any application. Here's just one: After hours a central warehouse computer calls in the 4210 at a retail outlet for transmission of the day's transactions. The 4210 (having batched this data on the tape cartridge) sends it to the computer. Upon completion, the 4210 automatically switches to the "receive" mode so the computer can send administrative data that will be recorded on the remaining tape in the cartridge. The whole operation is done on the same call. And unattended. This turn-around capability of the 4210 means across-the-board savings in line time and costs.

## Dual speed versatility

Imagine, by using the 4210 Magnetic Tape Data Terminal you can transmit and receive at high speeds. But the 4210 doesn't stop there. It also provides you with print-out capability by interfacing with most Teletype low and high speed terminals.

## Cartridges simplify tape handling

In fact, it couldn't be much easier. You merely place the cartridge onto the tape deck and follow up with an easy in-line threading sequence. You're ready to record. Any number of messages—up to 150,000 characters—can be stored on a single cartridge. That's equal to more than a 1000-foot roll of paper tape. Moreover, since you can erase (if you wish) any information on magnetic tape, a single cartridge can be re-used indefinitely. A special device prevents accidental erasure.

## Easy editing

Error correction is beautifully simple on the 4210 Magnetic Tape Data Terminal. A single spacing control permits you to move the tape, in forward or reverse direction, one character at a time. Then you just record the correct character over the erroneous one. That does it.

## Locating data also easy

Want to find a particular message or block of data? No problem. Simply flick a switch to the appropriate pre-selected character, press a button and you can search at the rate of 400 characters per second. Either forward or reverse. Tape automatically stops at the character you selected. There are four pre-selected characters (plus three programmable characters that are optional). For greater speed in moving the tape, a fast forward and reverse control lets you run the tape at about 4000 characters per second. An associated digital counter serves as an approximate reference of tape position.

# new from TELETYPE...model 38
## a low-cost line of wide platen data terminals with built-in modem option

### Continues "Model 33" economy

The Teletype® 33 terminal is probably the most widely used data communications terminal in the industry today because it performs—at a price that even the miniest of the mini system users can easily afford. Now, Teletype Corporation continues this economical design concept in its new model 38 line. A brand new line of data communications terminals offering some big system features at a very low cost. Features such as the wide printing format often used for computer print-outs. Upper-lower case and two-color printing for maximum clarity of data presentation. Modern cabinetry blends with contemporary office styling while reducing machine noise.
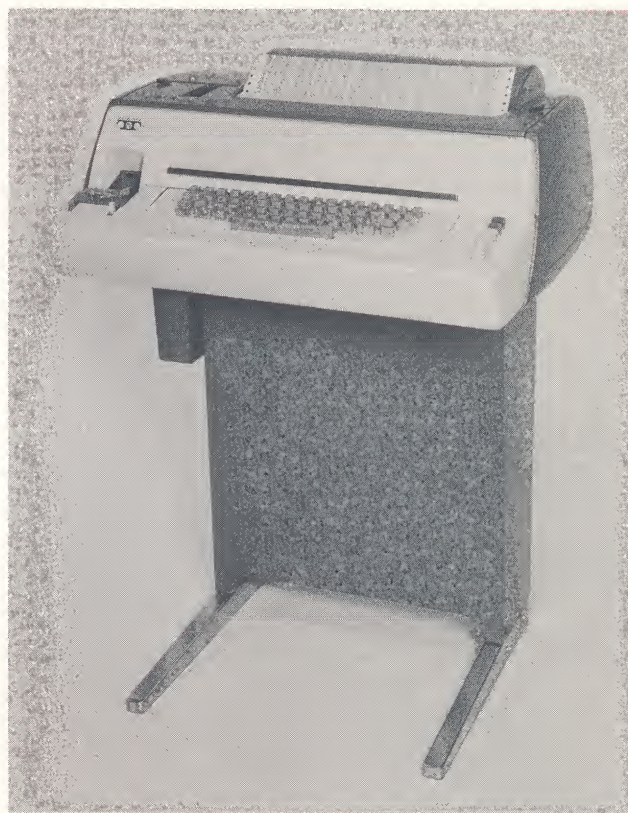
You can send your computer reports, forms and tabular listings directly on-line to a Teletype 38 terminal located right where the information is needed. And you don't have to use this terminal 24 hours a day to break even on terminal cost. Even your smallest sales offices that send and receive only short, random reports may now justify going "on-line" to the home office. On-line to speed up the order entry procedure. More timely shipping and billing status. Faster credit checks on potential new customers. Up-to-date information that allows more efficient, profitable operation.

### Standard wide format and more

The Teletype 38 data terminal has a 15″ wide pin feed platen that accepts the standard 14⁷/₈″ fan-fold computer paper stock. Prints a *full* 132 character line at 10 characters per inch. And if the wide format isn't always needed, there's a modification kit that allows the terminal to use either wide forms or standard 8½″ wide friction feed paper rolls. Use the more expensive wide forms only on the jobs where they're required.

### Full ASCII capabilities

The keyboard of the Teletype 38 data terminal generates all 128 characters of the American Standard Code for Information Interchange (ASCII). And the terminal prints all 94 standard printing graphics of the ASCII code, including upper and lower case alphabet. Prints in red or black in response to "Escape" sequences. The model 38 bridges the language barrier in even the most complex man-machine communications.



### Plug-to-plug compatible . . . with just about anything, including our famous Model 33!

The model 38 operates at 100 words per minute (110 baud) and is available with several interface options including a built-in modem. The two-wire, audio tone output connects directly to the data access arrangement. The set can also be equipped with the same 20 or 60 ma. current interface found in our Teletype 33 terminals. Or, the 38 is available with a voltage interface that conforms with EIA Standard RS-232-C. That means it will fit into just about any switched or private-line system without any special black boxes. You can even use the Teletype 38 in multi-point "selective calling" systems by adding a Teletype Stuntronic™ station controller.

## Technical Information

**Speed:** —100 words per minute (10 characters per second) 110 baud, 11 unit code.

**Line Length:** —132 characters at 10 characters per inch.

**Vertical Spacing (Line):** —6 lines per inch; operator can select double line space.

**Characters Available:** —Standard 6-row type wheel provides the capability of printing 94 graphics of the ASCII code.

**Feed:** —Pin feed platen is 15 inches wide.
—Kit available to provide friction feed of 8½ inch wide paper rolls.

**Form Entry:** —Rear loading. Continuous forms may be easily accommodated on the printer with the optional supply box and accumulator shelf.

**Form Out:** —Upon receipt of the ASCII form feed character, the paper will be advanced to the beginning of the next form. It will not respond to subsequent form feed characters until after paper has been advanced.

**Ribbon Shift:** —Red/Black ribbon shift on-line in response to "Escape" sequences.

**Finish:** —Two-tone combination of charcoal gray and ivory.

**Code:** —ASCII (7 information bits plus parity), 11 unit.

**Paper Tape:** —8-level, 1 inch wide.

**Magnetic Tape:** —Use Teletype 4210 magnetic tape data terminals.

**Keyboard:** —4-row, similar to typewriter.

**Temperature:** —Operating: 40°-110°F ambient, humidity: 95% max.

**Power Requirements:** —115VAC ± 10%, 60 Hz ± .75%, or 50 Hz ± .75%, single phase.
RO ................approx. 200 Watts
KSR ..............approx. 250 Watts
ASR ..............approx. 300 Watts
6 amp fused circuits

**Interface Options:** —Built-in modem provides operation compatible with Bell System 103 type or equivalent data sets (60 Hz units only).
—EIA Standard RS-232-C. With proper data set, can transmit over regular voice grade lines or narrow band channels.
—20 or 60 ma. interface for private line facilities.

**Maintenance Intervals:** —Every 6 months or every 750 operating hours, whichever occurs first.

**Dimensions and Weight:**

| Unit | height | width | depth | approx. weight |
|------|--------|-------|-------|-------|
| RO | 36¼ in. | 25 in. | 21 in. | 70 lbs. |
| KSR | 36¼ in. | 25 in. | 21 in. | 75 lbs. |
| ASR | 36¼ in. | 25 in. | 21 in. | 85 lbs. |

## A total line of terminals

The Teletype 38 data terminal line includes receive-only, keyboard send-receive, and automatic send-receive versions making it easy to supply exactly the right hardware for each location's terminal requirements.

The ASR version sends and receives data automatically at exactly 100 words per minute by using 1" punched paper tape. If faster on-line speeds are required to handle a high-volume location, the model 38 can be combined with a Teletype 4210 magnetic tape data terminal. This station arrangement speeds data on-line up to 2400 words per minute (240 characters per second).



## For more information about . . .

LEASED SERVICES featuring Teletype 38 data terminals, consult your data communications services company.

PURCHASING this or any Teletype data communications equipment, contact our Sales Organization at one of the locations listed below.

When ordering input-output terminals for your DATA PROCESSING SYSTEM, be sure to specify Teletype equipment—your vital communications link.

---

## TELETYPE CORPORATION

*machines that make data move*

**GENERAL OFFICES:** 5555 Touhy Avenue, Skokie, Illinois 60076 • Telephone: 312 982-2000 • TWX: 910-223-3611 and TELEX: 25-4051 (both have 24-hour automatic answering service)

**AREA OFFICES:**

Chicago *Sales*—
5555 W. Touhy Ave.,
Skokie, Ill. 60076,
phone 312 982-2500

*Product Service*—
9930 Derby Lane,
Westchester, Ill. 60153,
phone 312 345-7920

Los Angeles *Sales*—
5720 E. Washington Blvd.,
City of Commerce, Calif. 90022,
phone 213 724-6040

*Product Service*—
5720 E. Washington Blvd.,
City of Commerce, Calif. 90022,
phone 213 724-5051

New York *Sales*—
140 Sylvan Ave.,
Englewood Cliffs, N.J. 07632,
phone 201 461-7070

*Product Service*—
140 Sylvan Ave.,
Englewood Cliffs, N.J. 07632,
phone 201 947-7300

Washington, D.C. *Sales*—
1800 N. Kent St.,
Arlington, Va. 22209
phone 703 528-6050

*Product Service*—
1800 N. Kent St.,
Arlington, Va. 22209
phone 703 522-7118

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# TELETYPE

**Product Service Headquarters**
9930 Derby Lane
Westchester, Illinois 60153
(Area Code 312) 345-7920

**Product Service Centers**
Chicago Area:
9930 Derby Lane
Westchester, Illinois 60153
(Area Code 312) 345-7920

New York Area:
140 Sylvan Avenue
Englewood Cliffs, New Jersey 07632
(Area Code 201) 947-7300

Los Angeles Area:
5720 E. Washington Blvd.
City of Commerce, California 90022
(Area Code 213) 724-5051

Washington, D. C. Area:
1800 North Kent Street
Arlington, Virginia 22209
(Area Code 703) 522-7118

# TELETYPE

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# AT YOUR SERVICE

Teletype Corporation
# Product Service Centers

# NEW CUSTOMER SERVICE

The opening of our Product Service Centers is based upon a need to provide you with dependable, factory-authorized service for your Teletype® equipment.

Teletype Corporation Product Service Centers offer quality maintenance and repair service. Each Center is staffed with factory-trained service representatives using the latest tools and test equipment. These service representatives are equipped to handle maintenance and repairs, either at your location or in the Teletype Product Service Center itself. Each Center stocks an inventory of parts for fast replacement in repair operations.

Two basic plans are available for a fixed annual charge:
1. Routine Maintenance Plan
2. Routine Maintenance Plan with unlimited Repair Service.

## Routine Maintenance Plan

The Routine Maintenance contract provides that our field service representative will visit your company at factory recommended intervals throughout the year to inspect, clean, lubricate, replace worn parts, and adjust equipment. Repairs, as such, are not included in the fixed annual charge. However, repair services not covered by our standard product guarantee, are available at a reduced rate.

## Routine Maintenance Plan with Repair Service

This contract offers, in addition to the Routine Maintenance Plan described above, a complete repair service. Under this plan Teletype will make repairs as often as necessary.

## On-Call Repair Service

For those who need less extensive servicing, on-call repair service is available at your location or at the Center without a formal written contract.

For further information about Teletype Product Service Centers and service plans contact your nearest Center as indicated on the back cover.